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| FORM PTO-1390<br>(REV. 7-2005)   |  | U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE |  | ATTORNEY'S DOCKET NUMBER<br>11281-088-999  |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>  |  |  |  | U.S. APPLICATION NO. (if known, see 37CFR 1.5)<br>To be assigned<br><b>10/561342</b> |
| INTERNATIONAL APPLICATION NO.<br>PCT/KR2004/000750   |  | INTERNATIONAL FILING DATE<br>March 31, 2004                |  | PRIORITY DATE CLAIMED<br>June 17, 2003 and December 18, 2003                         |
| TITLE OF INVENTION<br>A COMPLEX MEMBRANE FOR ELECTROCHEMICAL DEVICE, MANUFACTURING METHOD AND ELECTROCHEMICAL DEVICE<br>HAVING THE SAME  |  |  |  |  |
| APPLICANT(S) FOR DO/EO/US<br>CHUN, Suk-Won; PARK, Jong-Su; JO, Seong-Mu; LEE, Hwa-Seop   |  |  |  |  |
| Applicant herewith submits to the United States Designated/ Elected Office (DO/EO/US) the following items and other information:   |  |  |  |  |
| <ol style="list-style-type: none"><li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li><li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li><li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li><li>4. <input checked="" type="checkbox"/> The U.S. has been elected (Article 31).</li><li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)).<ol style="list-style-type: none"><li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li><li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)</li></ol></li><li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).<ol style="list-style-type: none"><li>a. <input type="checkbox"/> is attached hereto.</li><li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li></ol></li><li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<ol style="list-style-type: none"><li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li><li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li><li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li><li>d. <input type="checkbox"/> have not been made and will not be made.</li></ol></li><li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li><li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)) (unexecuted).</li><li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li></ol> |  |  |  |  |
| Items 11. to 20. below concern document(s) or information included:  |  |  |  |  |
| <ol style="list-style-type: none"><li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li><li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li><li>13. <input type="checkbox"/> A preliminary amendment.</li><li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li><li>15. <input type="checkbox"/> A substitute specification.</li><li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li><li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter 2 and 37 CFR 1.821- 1.825.</li><li>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li><li>19. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li><li>20. <input checked="" type="checkbox"/> Other items or information: Amended sheets under PCT Article 34; copy of International Search Report; IPER; priority document; Request; Demand; Notice; copies and list of references.</li></ol>  |  |  |  |  |

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| US APPLICATION NO. (If known, see 37 CFR 1.55)<br>To be assigned <b>10/561342</b>  |                       | INTERNATIONAL APPLICATION NO.<br>PCT/KR2004/000750                             |                  | ATTORNEY'S DOCKET NUMBER<br>11281-088-999 |                           |
| The following fees are submitted:  |                       |  |                  |   |                           |
| 21. <input checked="" type="checkbox"/> Basic national fee .....   |                       |  |                  | \$300.00                                  |                           |
| 22. <input checked="" type="checkbox"/> Examination fee .....<br>Was the Written Opinion prepared by the ISA/USPTO or did the International Preliminary Examination Report prepared by the USPTO indicate that all filed claims in this U.S. application satisfy provisions of PCT Article 33(1)-(4) (i.e., novelty, inventive step and industrial capability)? .....  |                       |  |                  | \$200.00                                  |                           |
| <input type="checkbox"/> i) Yes (\$0.00) .....<br><input checked="" type="checkbox"/> ii) No (\$200.00) .....  |                       |  |                  |   |                           |
| 23. <input checked="" type="checkbox"/> Search fee .....<br>Did the Written Opinion of the ISA/USPTO or the International preliminary examination report prepared by the USPTO indicate that all claims satisfy provisions of PCT Article 33(1)-(4) (i.e., novelty, inventive step and industrial capability)? .....   |                       |  |                  | \$400.00                                  |                           |
| <input type="checkbox"/> i) Yes (\$0.00) .....<br>ii) If no:<br><input type="checkbox"/> (a) A Search Fee has been paid on the international application to the USPTO as an International Search Authority. (\$100.00) .....<br><input checked="" type="checkbox"/> (b) An International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB. (\$400.00) .....<br><input type="checkbox"/> (c) All other situations (\$500.00) .....        |                       |  |                  |   |                           |
| <b>TOTAL OF CALCULATIONS =</b>   |                       |  |                  | \$  | \$900.00                  |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing of computer programs listing filed in electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |                       |  |                  |   |                           |
| Total Sheets<br>28 -100  | Extra Sheets<br>0 /50 | Number of each additional 50 or fraction thereof (round up to a whole number). | RATE<br>x 250.00 |   | \$0.00                    |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).  |                       |  |                  | \$  | \$0.00                    |
| CLAIMS   | NUMBER FILED          | NUMBER EXTRA   | RATE X           |   |                           |
| Total Claims   | 13 - 20               | 0  | x \$50.00        |   | \$0.00                    |
| Independent Claims   | 1 - 3                 | 0  | x \$200.00       | =   | \$0.00                    |
| <input checked="" type="checkbox"/> MULTIPLE DEPENDENT CLAIM(S) (if applicable)  |                       |  | + 360.00         |   | \$360.00                  |
| <b>TOTAL OF ABOVE CALCULATIONS=</b>  |                       |  |                  | = \$                                      | \$1260.00                 |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 50%   |                       |  |                  | - \$                                      | \$630.00                  |
| <b>SUBTOTAL =</b>  |                       |  |                  | \$  | \$630.00                  |
| Surcharge of \$130.00 for furnishing the English Translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).   |                       |  |                  |   | \$0.00                    |
| <b>TOTAL NATIONAL FEE</b>  |                       |  |                  | = \$                                      | \$630.00                  |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). 0 x \$40.00 per property  |                       |  |                  | \$  | \$0.00                    |
| <b>TOTAL FEES ENCLOSED</b>   |                       |  |                  | = \$                                      | \$630.00                  |
|  |                       |  |                  | <b>Amount to be refunded:</b>             |                           |
|  |                       |  |                  | <b>charged:</b>                           |                           |
| a. <input type="checkbox"/> A check in the amount of \$ to cover the above fees is enclosed.<br>b. <input checked="" type="checkbox"/> This is an estimate of the fees due. Please charge Deposit Account No. 50-3013 to cover the required fees. A copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-3013. A copy of this sheet is enclosed. |                       |  |                  |   |                           |
| <b>Note: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</b>   |                       |  |                  |   |                           |
| 24. <input checked="" type="checkbox"/> All correspondence for this application should be mailed to  |                       | JONES DAY  |                  | 20583                                     |                           |
| 25. <input checked="" type="checkbox"/> All telephone inquiries should be made to  |                       | 212-326-3939.  |                  |   |                           |
| Anthony M. Insogna   |                       | <i>By Yeahsil Moon Reg No. 52,042</i><br>SIGNATURE                             |                  | 35,203<br>REG. NO.                        | December 15, 2005<br>DATE |